



PATIENT: Number 847  
 SEX: Male  
 AGE: 20

**Toxic & Essential Elements; Hair**

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	10	< 7.0	
Antimony (Sb)	0.30	< 0.066	
Arsenic (As)	0.032	< 0.080	
Barium (Ba)	0.55	< 1.0	
Beryllium (Be)	< 0.01	< 0.020	
Bismuth (Bi)	0.044	< 2.0	
Cadmium (Cd)	< 0.009	< 0.065	
Lead (Pb)	0.13	< 0.80	
Mercury (Hg)	< 0.03	< 0.80	
Platinum (Pt)	< 0.003	< 0.005	
Thallium (Tl)	0.001	< 0.002	
Thorium (Th)	0.002	< 0.002	
Uranium (U)	0.002	< 0.060	
Nickel (Ni)	0.10	< 0.20	
Silver (Ag)	0.02	< 0.08	
Tin (Sn)	0.22	< 0.30	
Titanium (Ti)	0.58	< 0.60	
Total Toxic Representation			

ESSENTIAL AND OTHER ELEMENTS					
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE 2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup>		
Calcium (Ca)	286	200- 750			
Magnesium (Mg)	37	25- 75			
Sodium (Na)	32	20- 180			
Potassium (K)	48	9- 80			
Copper (Cu)	8.3	11- 30			
Zinc (Zn)	160	130- 200			
Manganese (Mn)	0.17	0.08- 0.50			
Chromium (Cr)	0.51	0.40- 0.70			
Vanadium (V)	0.054	0.018- 0.065			
Molybdenum (Mo)	0.046	0.025- 0.060			
Boron (B)	51	0.40- 3.0			
Iodine (I)	0.52	0.25- 1.8			
Lithium (Li)	0.010	0.007- 0.020			
Phosphorus (P)	175	150- 220			
Selenium (Se)	0.68	0.70- 1.2			
Strontium (Sr)	0.73	0.30- 3.5			
Sulfur (S)	42900	44000- 50000			
Cobalt (Co)	0.006	0.004- 0.020			
Iron (Fe)	28	7.0- 16			
Germanium (Ge)	0.025	0.030- 0.040			
Rubidium (Rb)	0.058	0.011- 0.12			
Zirconium (Zr)	1.9	0.020- 0.44			

SPECIMEN DATA		RATIOS		
<b>COMMENTS:</b>		ELEMENTS	RATIOS	RANGE
Date Collected: 08/27/2013	Sample Size: 0.202 g	Ca/Mg	7.73	4- 30
Date Received: 09/03/2013	Sample Type: Head	Ca/P	1.63	0.8- 8
Date Completed: 09/06/2013	Hair Color: Black	Na/K	0.667	0.5- 10
Methodology: ICP/MS	Treatment:	Zn/Cu	19.3	4- 20
	Shampoo:	Zn/Cd	> 999	> 800

## **Health history for hair test 847**

What are your current symptoms and health history?

- No diagnosed health problems yet.

Dental history (wisdom teeth removed? First root canal placed? Braces? First amalgam etc...)

- Never had braces, still have wisdom teeth, no root canals. I have had cavities before, but I know nothing about the fillings that I have and the amount of cavities I've had in the past.

What dental work do you currently have in place? What part of the dental cleanup have you completed?

- None

What dentistry did your mother have at any time before or during pregnancy?

- Unsure.

What vaccinations have you had and when (including flu and especially travel shots)?

- Regular Childhood vaccines.

Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken.

Alpha Lipoic Acid 50 mg

DMSA 25 mg

I had just started taking these:

Magnesium 133 mg took two 4x a day.

Vitamin C 1000 mg 3x a day

Other information you feel may be relevant?

- None

What is your location - city & country (so that we can learn where certain toxins are more prevalent).

- Dayton, OH. United States.